Thermochimica Acta, 199 (1992) vii–viii
Elsevier Science Publishers B.V., Amsterdam

CONTENTS

Preface ix

Specific and non-specific ion–polysaccharide interactions
A. Cesàro (Trieste, Italy), V. Crescenzi (Rome, Italy), F. Delben, A. Gamini, G. Liut, S. Paoletti and R. Rizzo (Trieste, Italy) 1

Computer coupling of thermodynamics and phase diagrams: the gadolinium–magnesium system as an example
G. Cacciamani, A. Saccone, G. Borzone, S. Delfino and R. Ferro (Genoa, Italy) 17

Thermal decomposition of Mg–Al hydroxides coprecipitated in the presence of oxalate ions
E. Traversa, P. Nunziante (Rome, Italy) and G. Chiozzini (Monterotondo Stazione RM, Italy) 25

The specific heat of $[N(CH_3)_4]_2ZnBr_4$ around the ferro-paraelastic phase transition by adiabatic calorimetry
J.M. Igartua, I. Ruiz-Larrea, J. Zubillaga, A. López-Echarri (Bilbao, Spain) and M. Couzi (Bordeaux, France) 35

Temperature-programmed desorption of H_2S from alkali-metal zeolites
I. Ferino, R. Monaci, E. Rombi, V. Solinas and L. Burlamacchi (Cagliari, Italy) 45

Thermal and electrical properties of $Ag_2O–M_2O_3–P_2O_5$ glasses ($0.65 \leqslant Ag_2O/P_2O_5 \leqslant 1.5$; M = Al, B; $M_2O_3/P_2O_5 \leqslant 0.36$)
F. Branda, A. Costantini and A. Buri (Naples, Italy) 57

Application of the DISQUAC group contribution model to binary liquid organic mixtures containing alkanals
M.R. Tiné (Pisa, Italy) and B. Marongiu (Cagliari, Italy) 63

Using thermoanalytical data. Part 3. Influence of calorimetric and instrumental parameters on estimating kinetic parameters by TG
U. Biader Ceipidor (Potenza, Italy), R. Bucci and A.D. Magrí (Rome, Italy) 77

Using thermoanalytical data. Part 4. Processing of DTA/DSC curves to calculate reaction enthalpy and kinetic parameters. An application to calcium oxalate
U. Biader Ceipidor (Potenza, Italy), R. Bucci and A.D. Magrí (Rome, Italy) 85

Thermodynamic approach to cold denaturation of proteins
A. Schiraldi (Milan, Italy) and E. Pezzati (Pavia, Italy) 105

Thermal denaturation and aggregation of egg proteins
M. Rossi and A. Schiraldi (Milan, Italy) 115

Calorimetric investigation of the complex formation between surfactants and α-, β- and γ-cyclodextrins
V. Turco Liveri, G. Cavallaro (Palermo, Italy), G. Giammona (Catania, Italy), G. Pitarresi (Palermo, Italy), G. Puglisi (Catania, Italy) and C. Ventura (Palermo, Italy) 125

Thermal analysis of thermoplastic matrices for advanced composite materials: poly(phenylene sulphide)
A. Maffezzoli, J.M. Kenny and L. Nicolais (Naples, Italy) 133

A calorimetric approach to the kinetics of the irreversible thermal denaturation of proteins
M.L. Galisteo, F. Conejero-Lara, J. Núñez, J.M. Sánchez-Ruiz and P.L. Mateo (Granada, Spain) 147

Adiabatic calorimetry for safety studies in nitration processes
R. Andreozzi, T. Aquila, V. Caprio and A. Insola (Naples, Italy) 159

Thermal behaviour and physicochemical properties of naproxen in mixtures with polyvinylpyrrolidone
G.P. Bettinetti, P. Mura (Florence, Italy), F. Giordano and M. Setti (Pavia, Italy) 165

Thermodynamics of hydrogen-bonded complex formation in chloroform + cyclic ether mixtures
A. Inglese (Bari, Italy) 173

Conformational stability of proteins and peptide–peptide interactions in the presence of carbohydrates
G. Barone, P. Del Vecchio, C. Giancola and G. Notaro (Naples, Italy) 189
DSC studies on the denaturation and aggregation of serum albumins
G. Barone, C. Giancola and A. Verdoliva (Naples, Italy) 197
Elasticity of α–β quartz measured by TMA
H.G. Wiedemann and R. Riesen (Greifensee, Switzerland) 207
Thermal analysis of standard and toughened high-performance epoxy matrices
J.M. Kenny, A. Trivisano, M.E. Frigione and L. Nicolais (Naples, Italy) 213
Interactions in aqueous solutions of alkylthioureas. Excess enthalpies at 298.15 K
G. Barone, P. Cacace (Naples, Italy), G. Della Gatta (Turin, Italy), R. De Sena and C. Giancola (Naples, Italy) 229
The new method of constant rate thermal analysis (CRTA): application to discrimination of the kinetic model of solid state reactions and the synthesis of materials
J.M. Criado, F.J. Gotor, A. Ortega and C. Real (Seville, Spain) 235
Microcalorimetric measurements of thermal denaturation and renaturation processes of salmon sperm DNA in gel and liquid crystalline phases
D. Grasso, R.G. Campisi and C. La Rosa (Catania, Italy) 239
Calorimetric study of the room-temperature transitions of tetrafluoroethylene–hexafluoropropylene copolymer: thermal history and crystalline state
V. Villani and R. Pucciariello (Potenza, Italy) 247

Author Index 255

Subject Index 257